

**PROJECT FACT SHEET**

**CONTRACT TITLE:** Application of Artificial Intelligence to Reservoir Characterization - An Interdisciplinary Approach

**DATE REVIEWED:** 07/28/1994

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**OBJECTIVE:** Design and implement an intelligent microcomputer-based system that can be used by small producers and independents to efficiently exploit reservoirs developed in fluvial and fluvial-dominated depositional systems.

**ID NUMBER:** DE-AC22-93BC14894

**B & R CODE:** AC0540000

**CONTRACT PERFORMANCE PERIOD:**  
09/23/1993 to 09/22/1996

**PROGRAM:** Supporting Research  
**RESEARCH AREA:** Geoscience

**DOE PROGRAM MANAGER:**

**NAME:**

**COMMERCIAL:**

**CONTRACTOR:** University of Tulsa  
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**CONTRACT PROJECT MANAGER:**

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**DOE PROJECT MANAGER:**

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**LOCATION:** BPO

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**PROJECT SITE:**

Tulsa, OK

**SCHEDULED MILESTONES:**

| FUNDING (1000'S)  | DOE | OTHER | CONTRACTOR | TOTAL |
|-------------------|-----|-------|------------|-------|
| PRIOR FISCAL YRS  | 760 | 221   | 0          | 981   |
| FISCAL YR 1994    | 23  | 0     | 0          | 23    |
| FUTURE FUNDS      | 0   | 0     | 0          | 0     |
| TOTAL EST'D FUNDS | 783 | 221   | 0          | 1,004 |

**PROJECT DESCRIPTION:** The main challenge - and unique contribution - of the proposed research will be to integrate diverse reservoir-related information ranging from qualitative and semi-quantitative geological information to numeric data obtained from cores, well tests, well logs and production statistics. This challenge is increased because the available information is of differing scales and credibility and the resulting expert system has to quickly generate accurate reservoir descriptions honoring all the available "soft" and "hard" data. Such descriptions are of immense value to independent oil producers in evaluating and exploiting mature reservoirs and thereby enhancing indigenous petroleum production.

**PRESENT STATUS:**

**ACCOMPLISHMENTS:**

**BACKGROUND:**